

### Abstract of the Invention

A speaker that is designed to substantially eliminate wobble of the voice coil during operation, and thus remove that source of distortion and early failure of the speaker. This is accomplished with the creation of triangular ring that extends upward  
5 from the top edge of the voice coil bobbin with that ring mating with a flat diaphragm at a right angle directly above the top edge of the bobbin. The outer edge of the diaphragm connects to the inner edge of the surround at the point where a sloping side of the "triangle" is also connected and slopes down to the top edge of the bobbin where the opposite end is connected. The outer portion of the diaphragm provides the  
10 third side of the triangle.